(12) UK Patent Application (19) GB (11) 2 223 847 (13) A

(43) Date of A publication 18.04.1990

(21) Application No 8824195.5

(22) Date of filing 15.10.1988

(71) Applicant
Terence Frederick Fisher
137 St Fagans Road, Fairwater, Cardiff, S Wales, CF5 3AG, United Kingdom

(72) Inventor
Terence Frederick Fisher

(74) Agent and/or Address for Service
Terence Frederick Fisher
137 St Fagans Road, Fairwater, Cardiff, S Wales, CF5 3AG, United Kingdom

(51) INT CL⁴
G01C 9/00

(52) UK CL (Edition J)
G1F F3

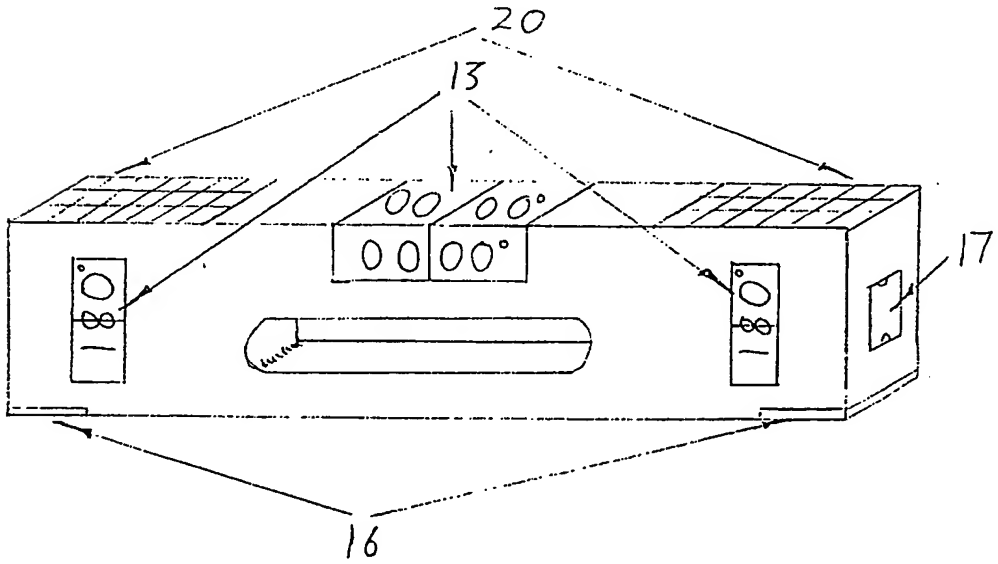
(56) Documents cited
GB 2113383 A GB 0260121 A GB 0249438 A
US 4506450 A US 4473906 A US 4094073 A

(58) Field of search
UK CL (Edition J) G1F
INT CL⁴ G01C

(54) Micro degree

(57) The micro degree comprises an electronic level instrument having viewing screens 13 on which are displayed a full spectrum of degrees in numerical read-outs. The instrument may be powered by solar cells 20.

FIG 1



GB 2 223 847 A

FIG 1

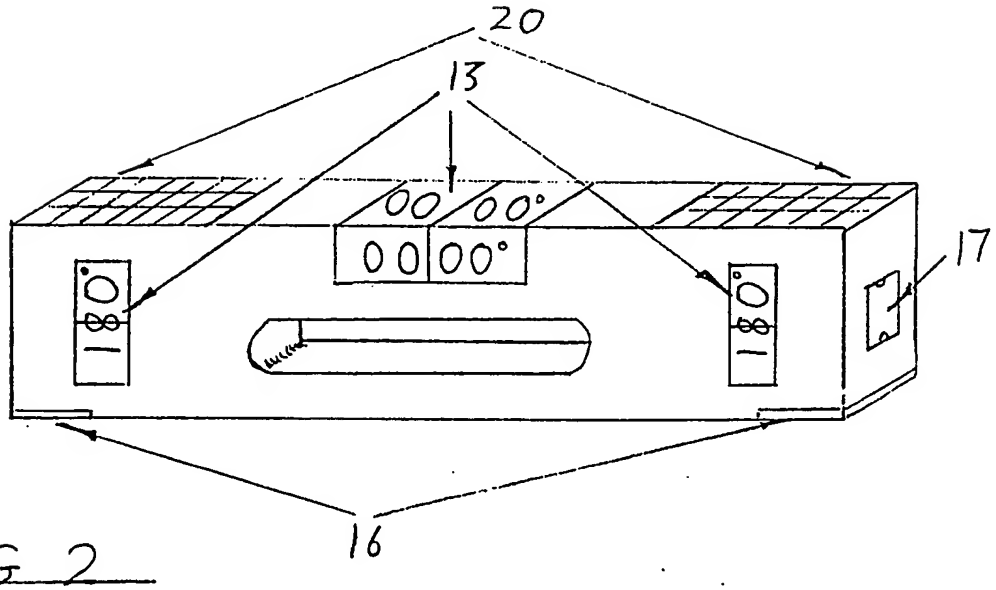


FIG 2

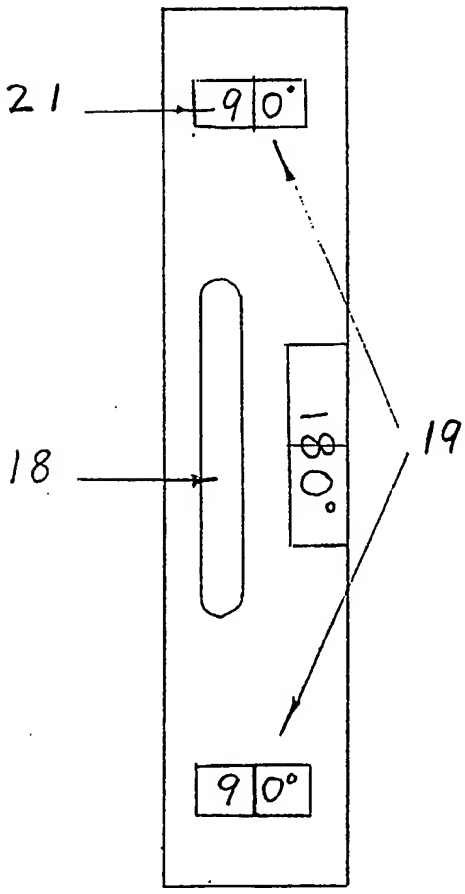
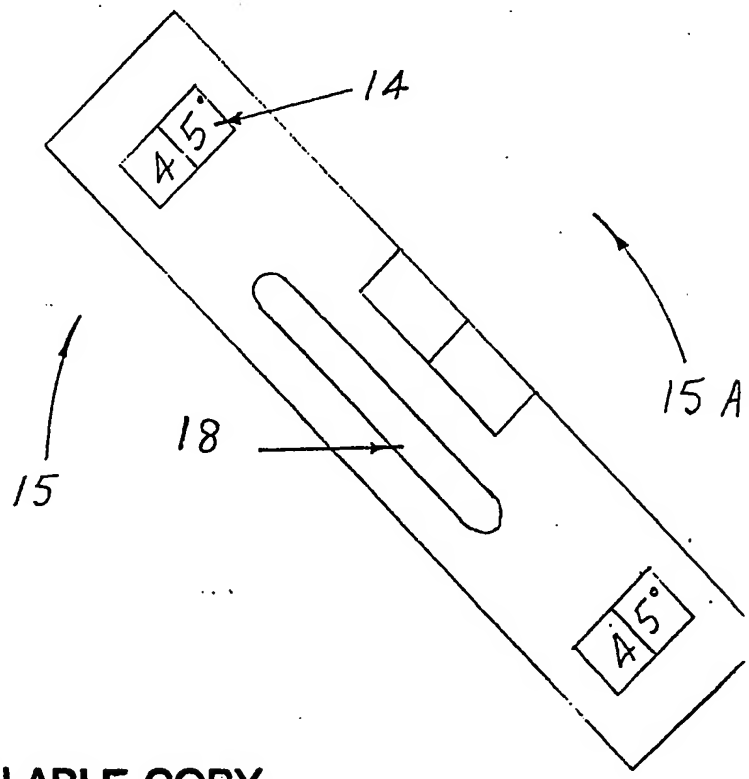


FIG 3



2223847

MICRO DEGREE

This invention relates to a MICRO DEGREE. A MICRO DEGREE is a level, shape oblong with viewing screens on faces and edges. Sizes can vary according to requirements.

The MICRO DEGREE is an Engineering level, Building level and Scientific level. The MICRO DEGREE, oblong in shape of portable size for easy carrying with indentation for grip. By rotating the MICRO DEGREE to position required you will acquire a read-out of angle on screen. The MICRO DEGREE has viewing screens which will show read-outs in degrees required.

The MICRO DEGREE is powered by micro chips inside unit.

The MICRO DEGREE can also be powered by solar energy panels in unit. Read-out on screens will light up showing numerical figures required. MICRO DEGREE will have batteries to power micro chips in unit with necessary wiring to relevant positions inside unit.

A specific embodiment of the invention will be described by way of example with reference to the accompanying drawing in which:-

Figure 1 shows in perspective the MICRO DEGREE in the level position.

Figure 2 shows the MICRO DEGREE in the vertical position of 90°.

Figure 3 shows the position required at 45°.

Referring to the drawings the MICRO DEGREE is a level comprising of a solid body oblong or square in shape 12 Fig. 1.

In order to obtain the required angle MICRO DEGREE can be

rotated from left to right as shown Fig 3 15 and 15a example 45° 14 Fig. 3.

In order to obtain a reading of level the MICRO DEGREE must be positioned horizontal until correct reading shows 13 Fig. 1. Unit is powered by solar cells in faces 20 Fig. 2. Unit can also be powered by batteries inside frame 17 Fig. 1. Frame will incorporate indentation for carrying 18 Fig. 2. Unit will include sensors in faces 16 Fig. 1.

CLAIMS

1 A MICRO DEGREE is a level of box shape solid in construction. The MICRO DEGREE has a numerical read-out showing a full spectrum of degrees to obtain accuracy at angle required.

2 A MICRO DEGREE box level as claimed 1 wherein viewing screens show numerical read-out in degrees.

3 A MICRO DEGREE box level as claimed 1 or 2 wherein degrees show with numerical read-out lighting up in screens.

4 A MICRO DEGREE box level as claimed in 2 or 3 with numerical read-out lighting up in screens connected to solar powered cells in faces of unit.

5 A MICRO DEGREE box level as claimed in 4 wherein connection to numerical read-outs connected to micro chips.

6 A MICRO DEGREE box level as claimed in 4 or claim 5 wherein connection to micro chips with solar powered cells.

7 A MICRO DEGREE box level as claimed in 6 wherein connection to micro chips with sensors on body of unit.

8 A MICRO DEGREE box level as claimed in any preceding claim wherein the body of the unit will incorporate indentation for easy carrying.

9 A MICRO DEGREE box level substantially described herein with reference to Figures 1 to 3 of the accompanying drawing.

Published 1990 at The Patent Office, State House, 66-71 High Holborn, London WC1R 4TP. Further copies may be obtained from The Patent Office Sales Branch, St Mary Cray, Orpington, Kent BR5 3RD. Printed by Multiplex techniques ltd, St Mary Cray, Kent, Con. 1/87